

How do They Do That? EVAAS and the New Tests

WRESA Summer Leadership Conference
Asheville, NC
June 2013

SAS® EVAAS® for K-12



**THE
POWER
TO KNOW®**



Presenters

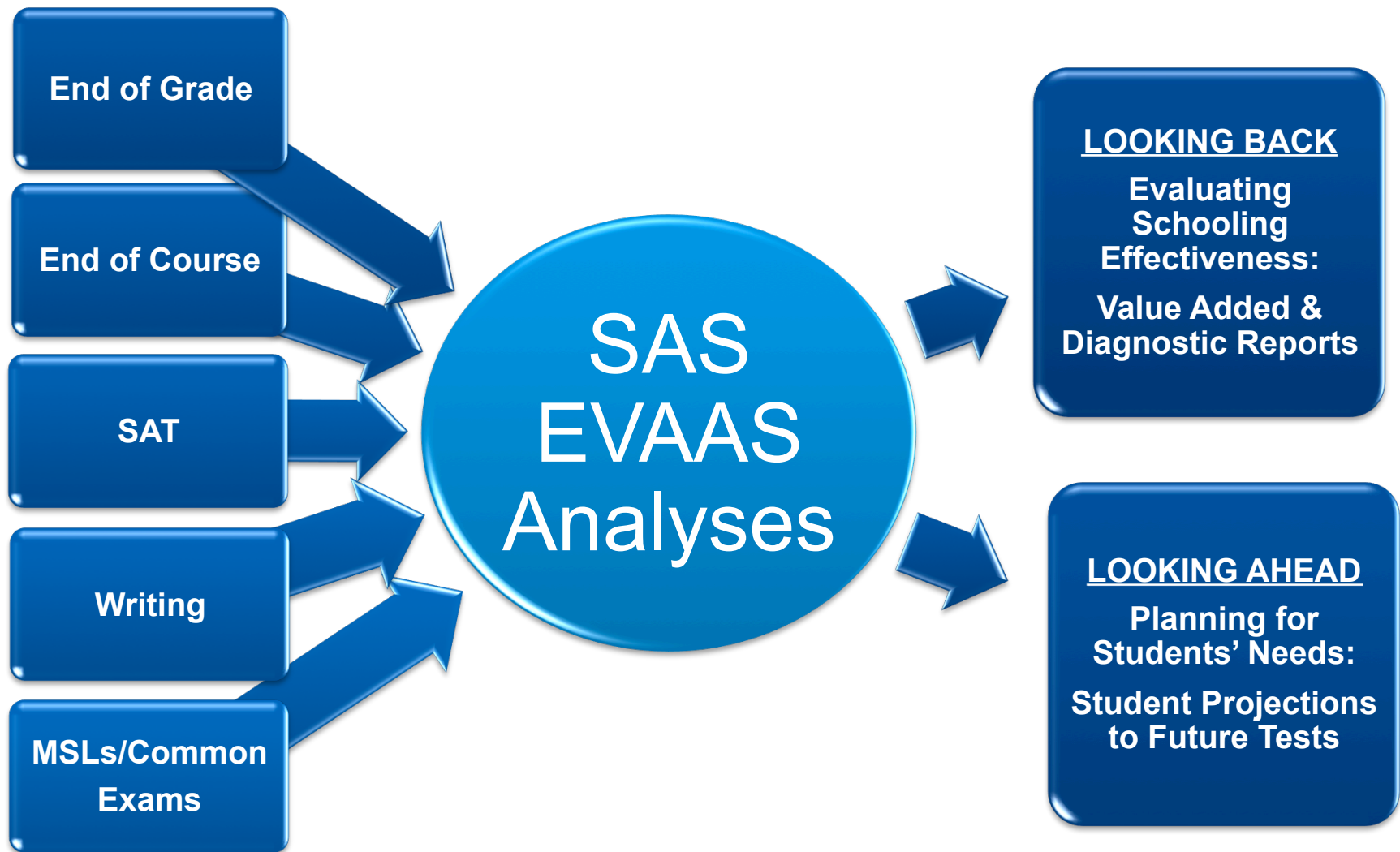
Jennifer Preston

Race to the Top Project Coordinator
NCDPI

Sandy Horn

Senior Educator Support Specialist
SAS EVAAS

What is SAS EVAAS?



It's all about **PROGRESS**

EVAAS is the **Growth Measure** for North Carolina. It looks at school effectiveness in terms of how much academic progress students make in a district, school, or classroom.

The State Board of Education will set Performance Levels in the fall, because North Carolina is also interested in the **attainment** level of students.

Attainment and Progress are two different things. Both are important, but EVAAS is only concerned with **PROGRESS**.

What do we need to know to measure Progress?

Only two things:

- Where we start
- Where we end up

Then, we measure the difference.

Growth Standard Value Added Report

Report: District Value Added Test: End of Grade
 District: District-kb Subject: Math
 Year: 2012

Estimated District Mean NCE Gain							
Grade	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	Mean NCE Gain over Grades Relative to Growth Standard
Growth Standard		0.0	0.0	0.0	0.0	0.0	
2010 Mean NCE Gain							
Std Error							
2011 Mean NCE Gain							
Std Error							
2012 Mean NCE Gain		1.3 G	-0.3 G	-2.0 R	2.9 B	-6.9 R	-1.0 R
Std Error		0.8	0.7	0.8	0.8	0.8	0.4
3-Yr-Avg NCE Gain							
Std Error							
Estimated District Mean NCE Scores							
Grade	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	
NCE Base	50.0	50.0	50.0	50.0	50.0	50.0	
2009 Mean							
2010 Mean							
2011 Mean	53.0	53.0	51.9	50.9	53.9	50.5	
2012 Mean	51.1	54.2	52.6	49.8	53.7	47.0	

UNDERSTANDING THE SAS® EVAAS® PREDICTIVE MODEL (AKA “URM”)

EOG SCIENCE, EOC, CTE, MSL/COMMON EXAMS



Predicted Scores

HOW ARE PREDICTED SCORES DIFFERENT FROM GROWTH SCORES?

Current



- Predicted scores are what we would expect students to score based on their own past testing histories and assuming they receive the average schooling experience in North Carolina.

Past



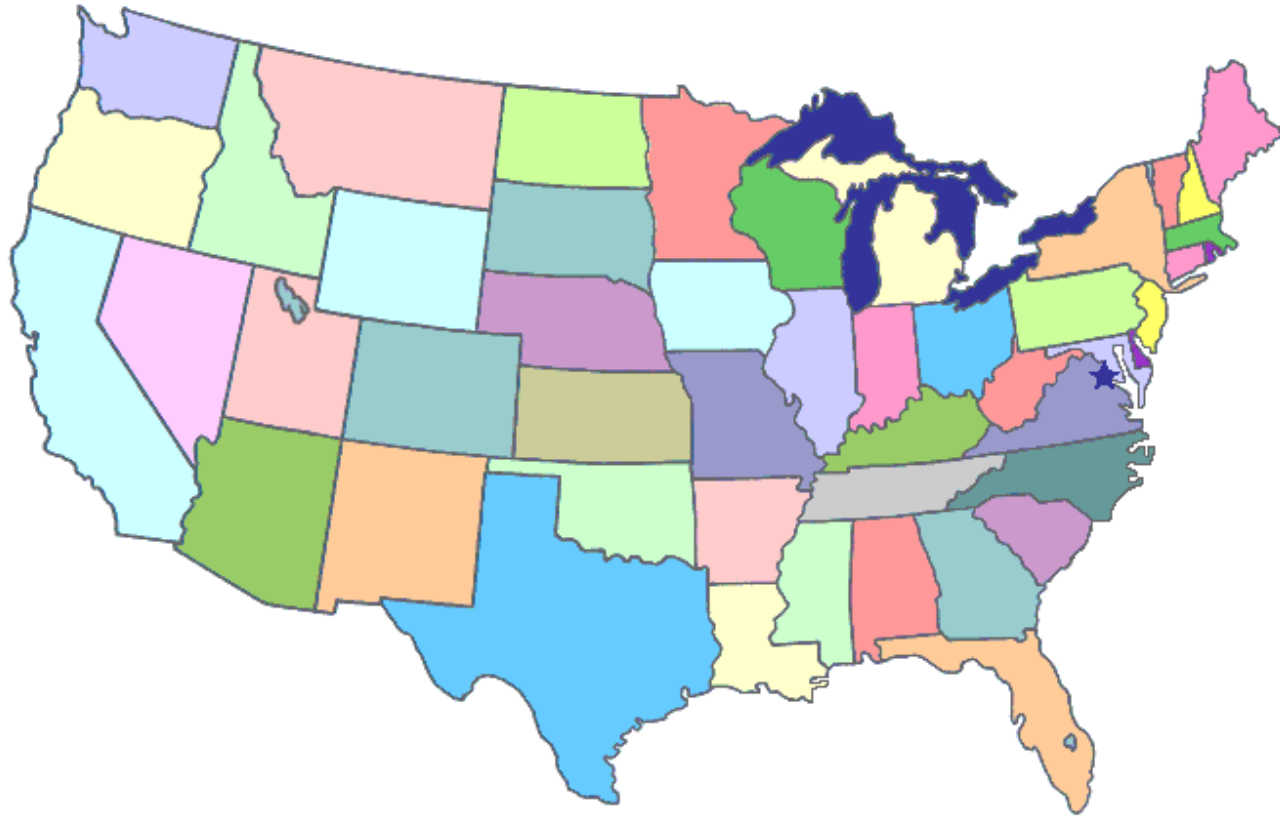
Report: District Value Added Test: End of Grade
 District: District-pB Subject: Science
 Year: 2012

Subject	Grade	Year	N	Mean Student Score	Mean Score %ile	Mean Pred Score	Pred Score %ile	District Effect	Effect Std Err	District vs State Avg
Science	5	2010	37	159.7	70	159.2	68	0.4	0.9	Meets Expected Growth
		2011	41	159.5	64	159.7	65	-0.2	0.8	Meets Expected Growth
		2012	42	155.1	40	159.3	60	-3.5	0.8	Does Not Meet Expected Growth
		3-Yr-Avg	120	158.0	59	159.4	65	<u>-1.1</u>	0.5	Does Not Meet Expected Growth
	8	2010	40	158.0	69	156.3	62	1.4	0.8	Meets Expected Growth
		2011	35	157.4	64	157.5	65	-0.1	0.8	Meets Expected Growth
		2012	36	155.4	51	156.0	54	-0.6	0.8	Meets Expected Growth
		3-Yr-Avg	111	156.9	62	156.6	60	<u>0.3</u>	0.4	Meets Expected Growth

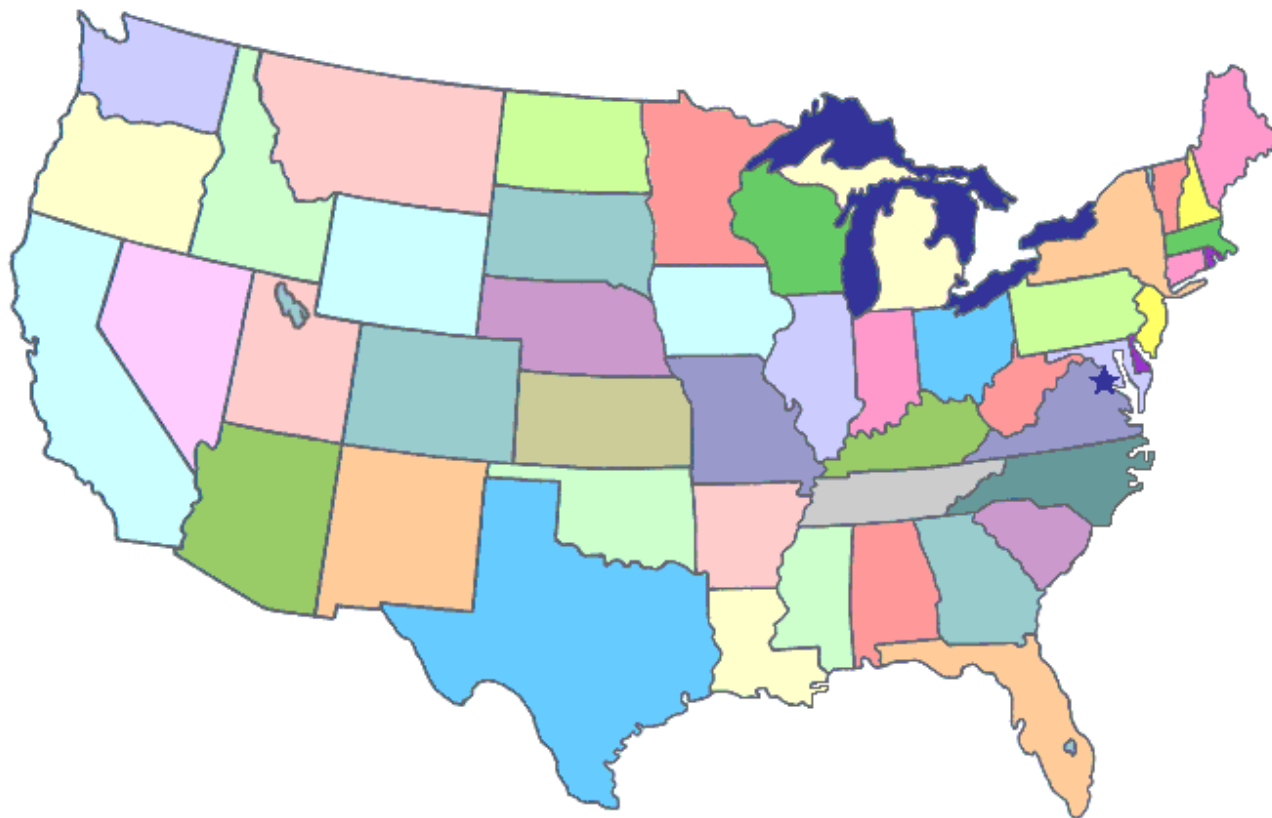
Understanding a New Term

Predictions

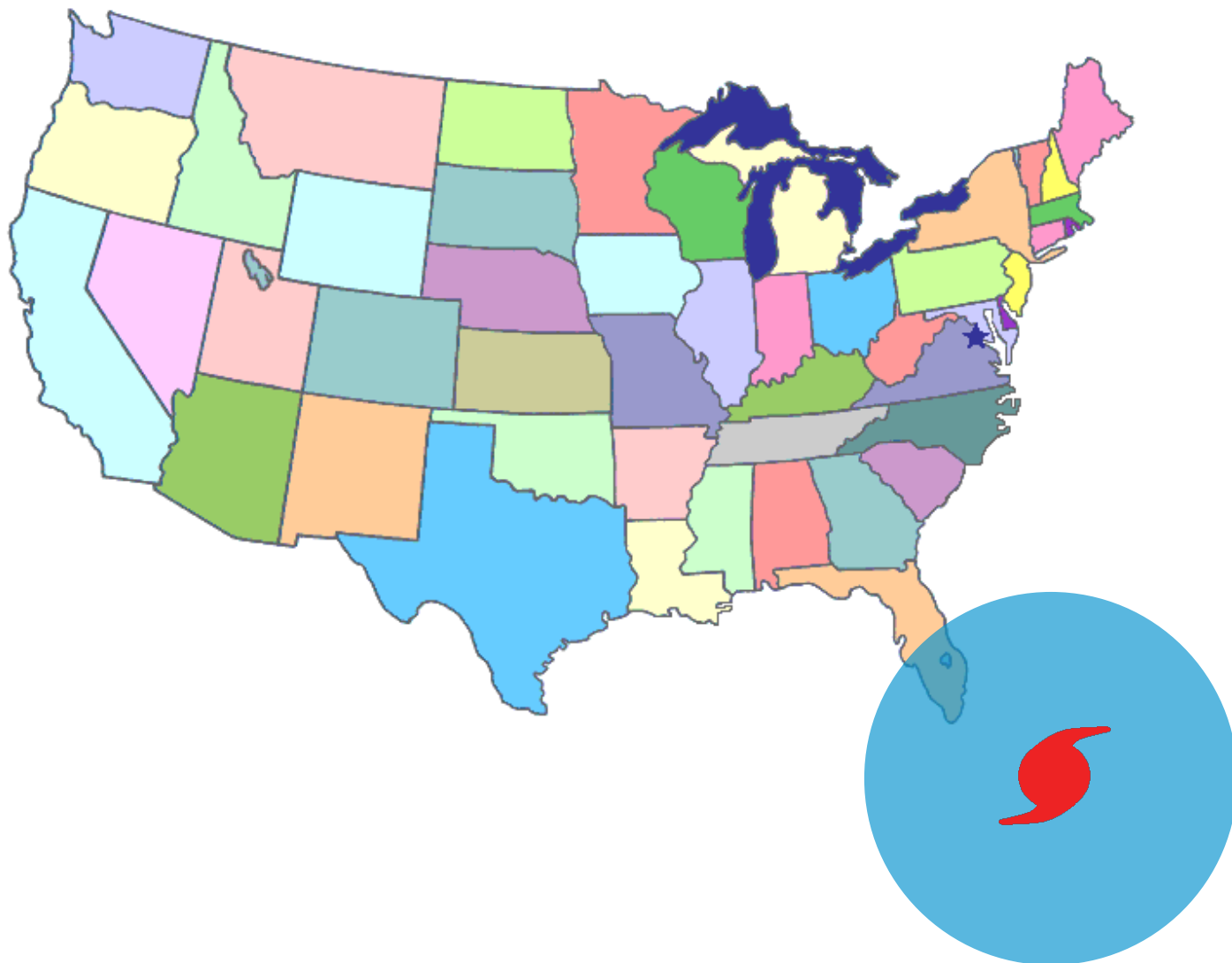
Having more information can be helpful...



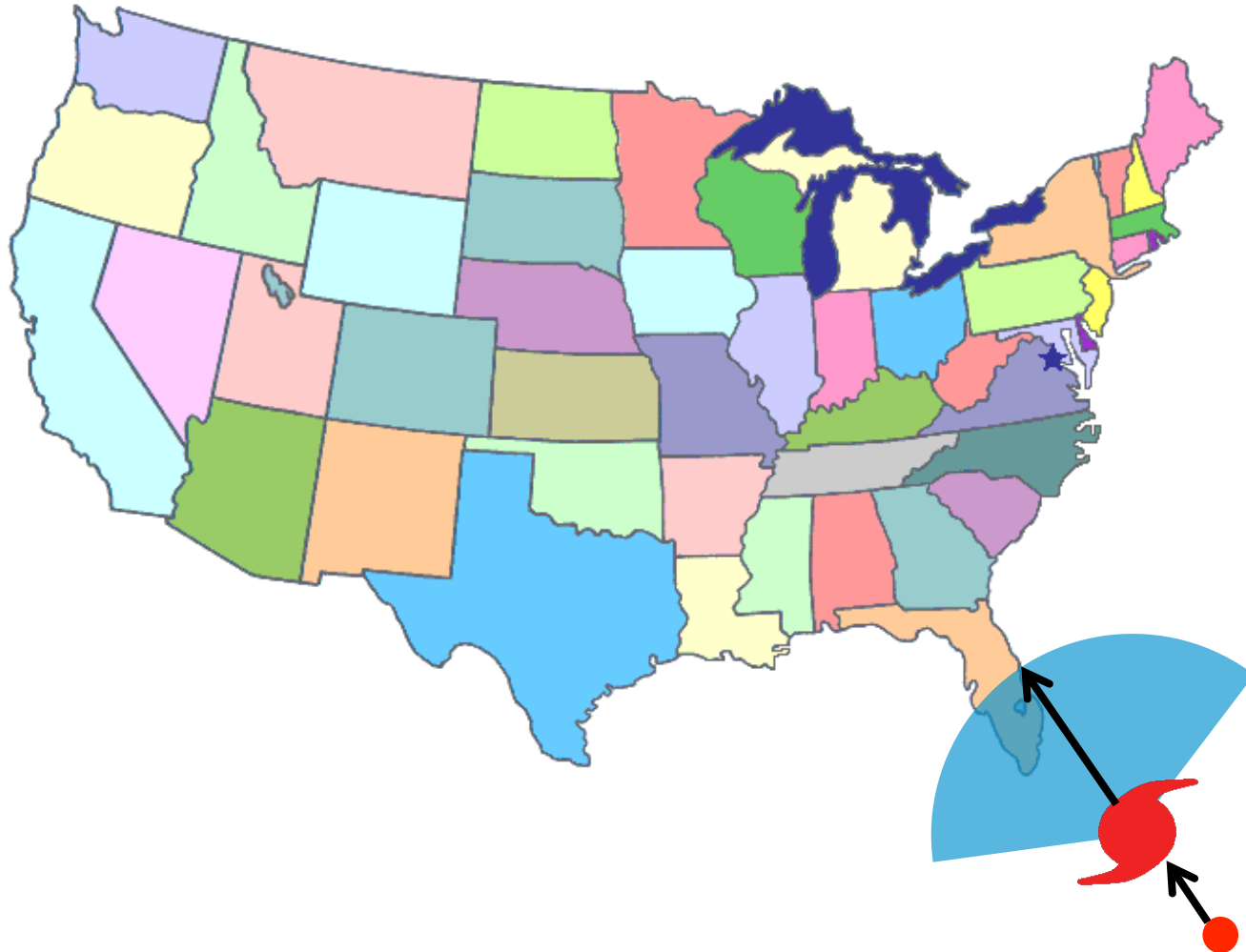
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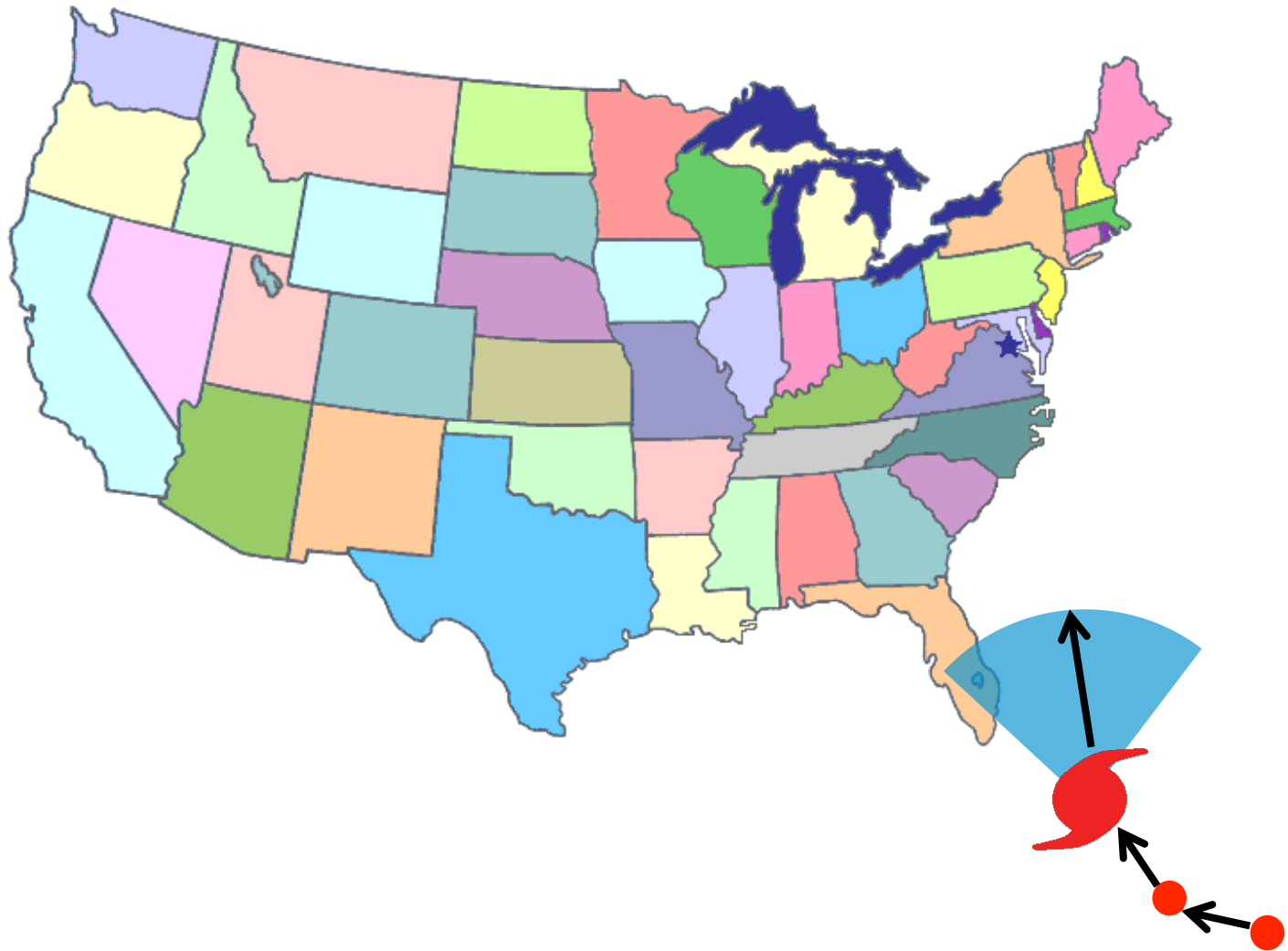
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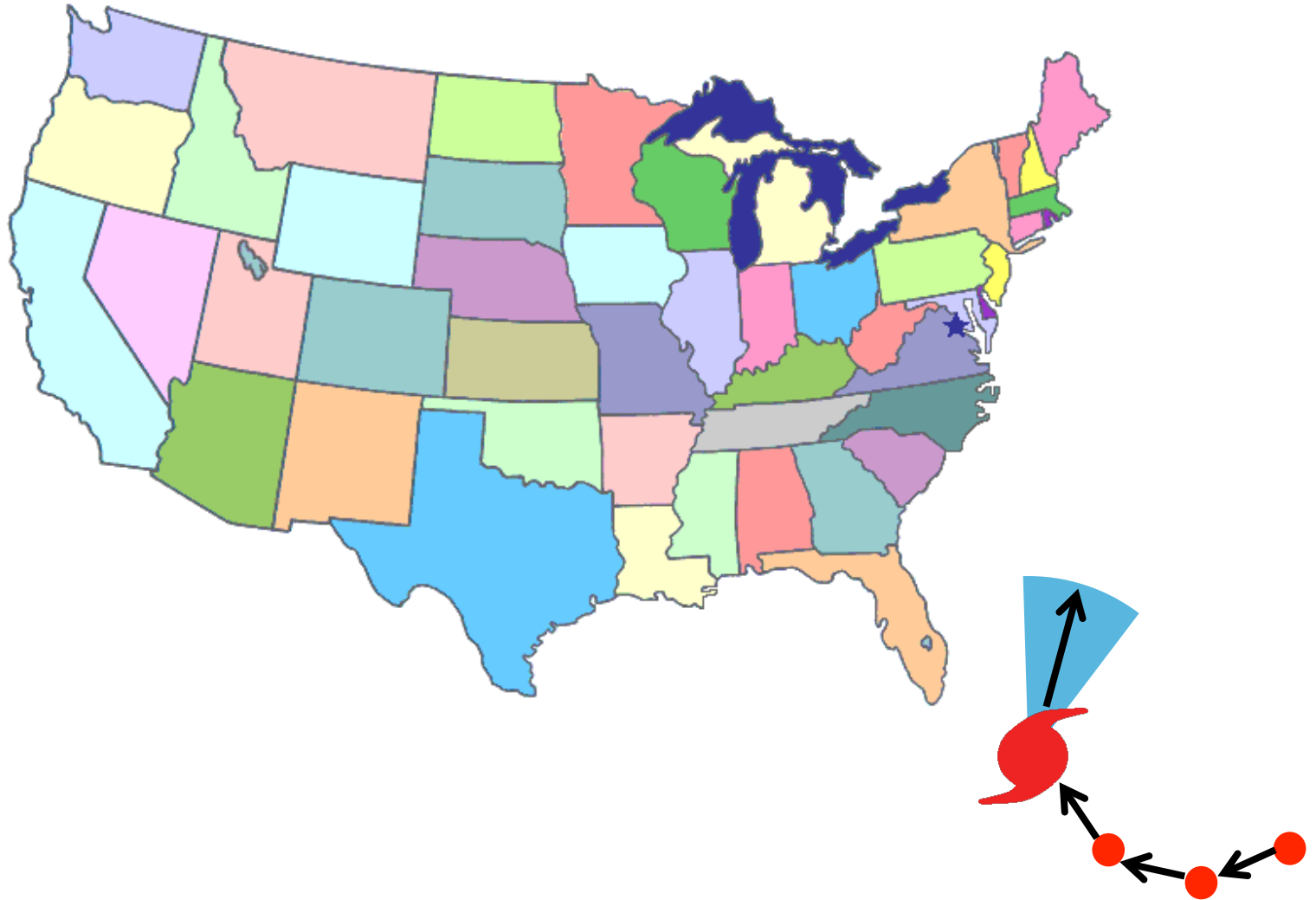
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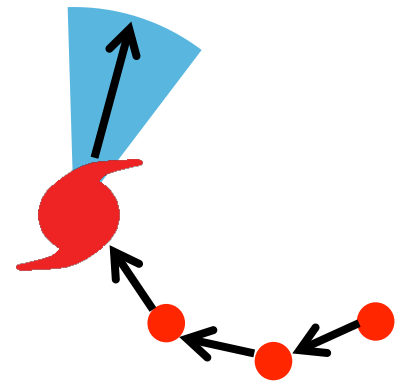
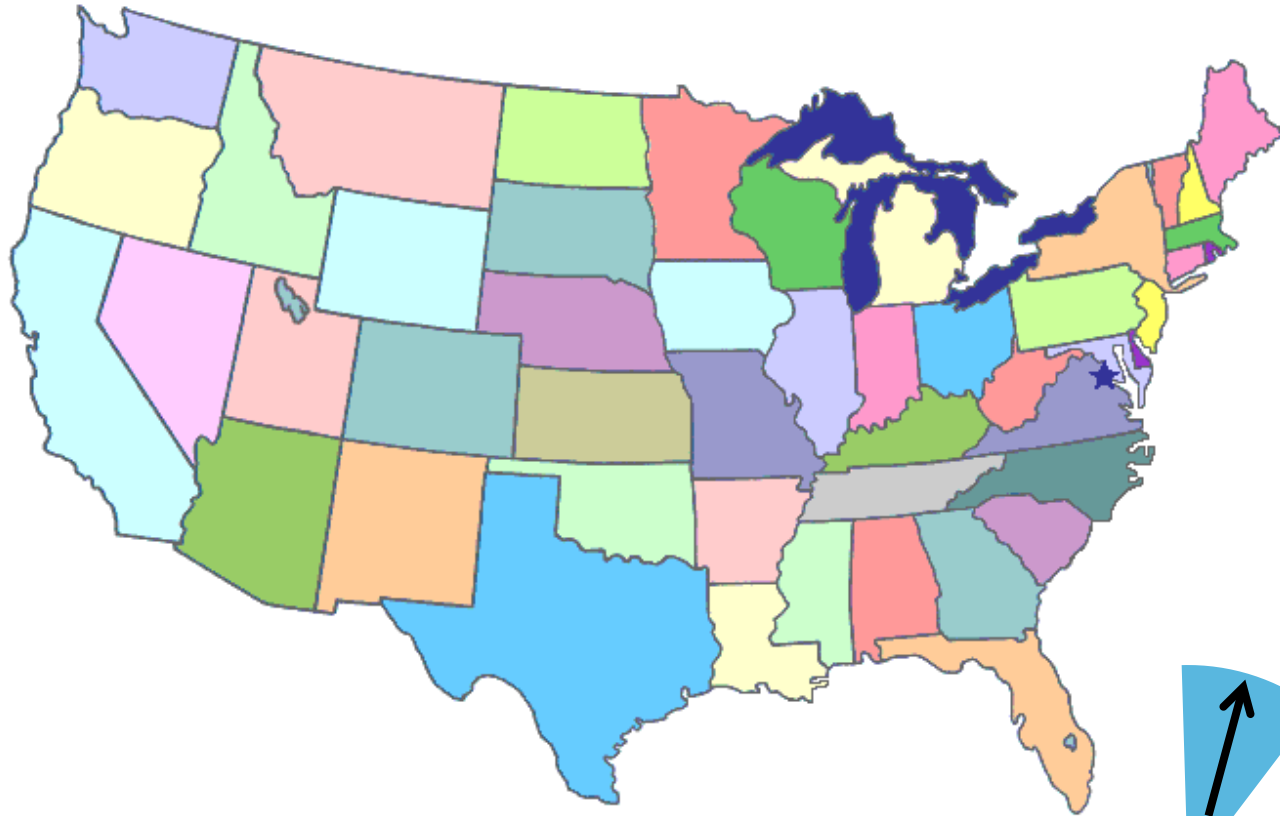
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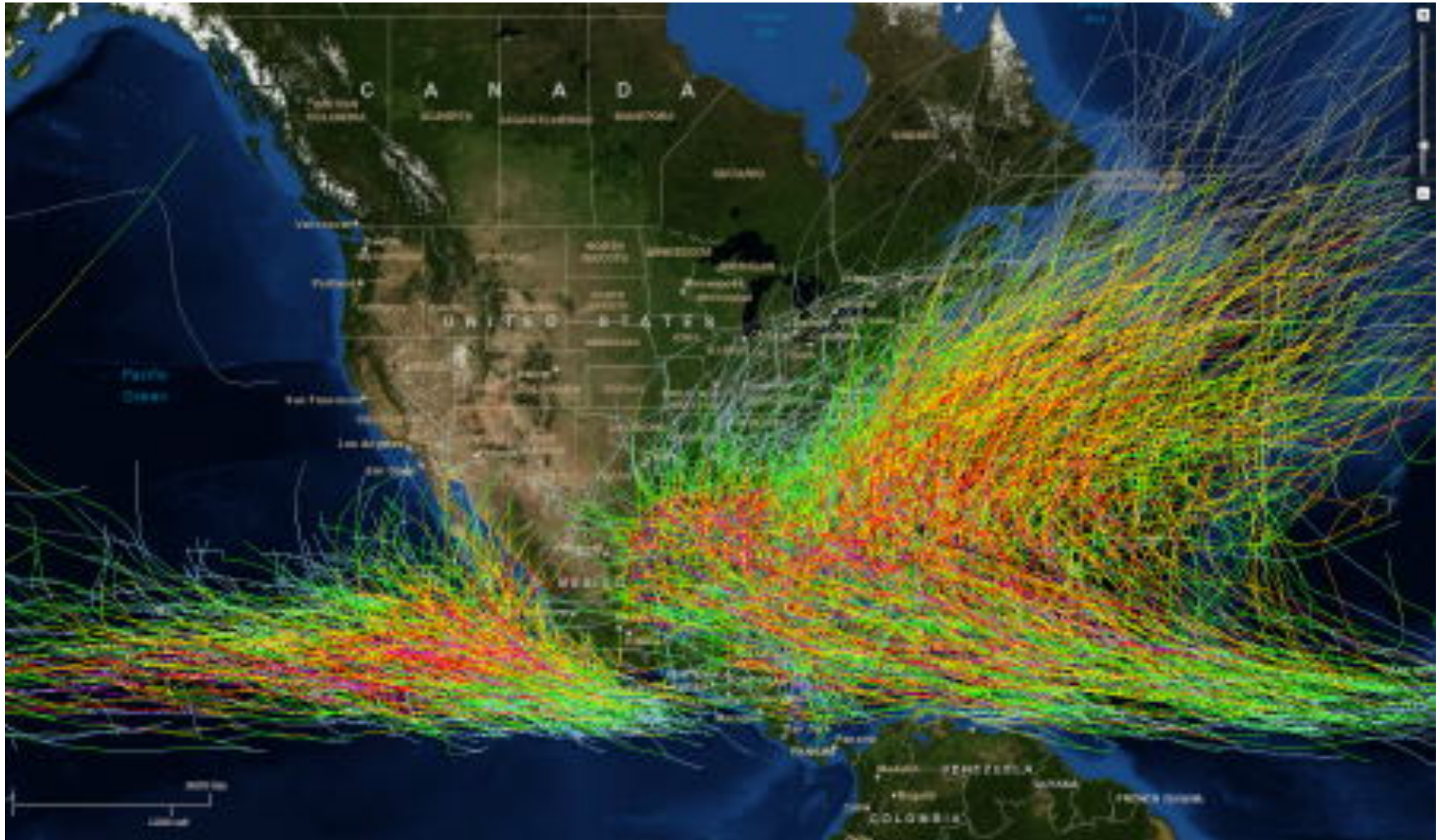
Knowing where something has been helps to determine where it is more likely going to go.

But you have to look at the Big Picture

When Predicting the Progress of Hurricanes,

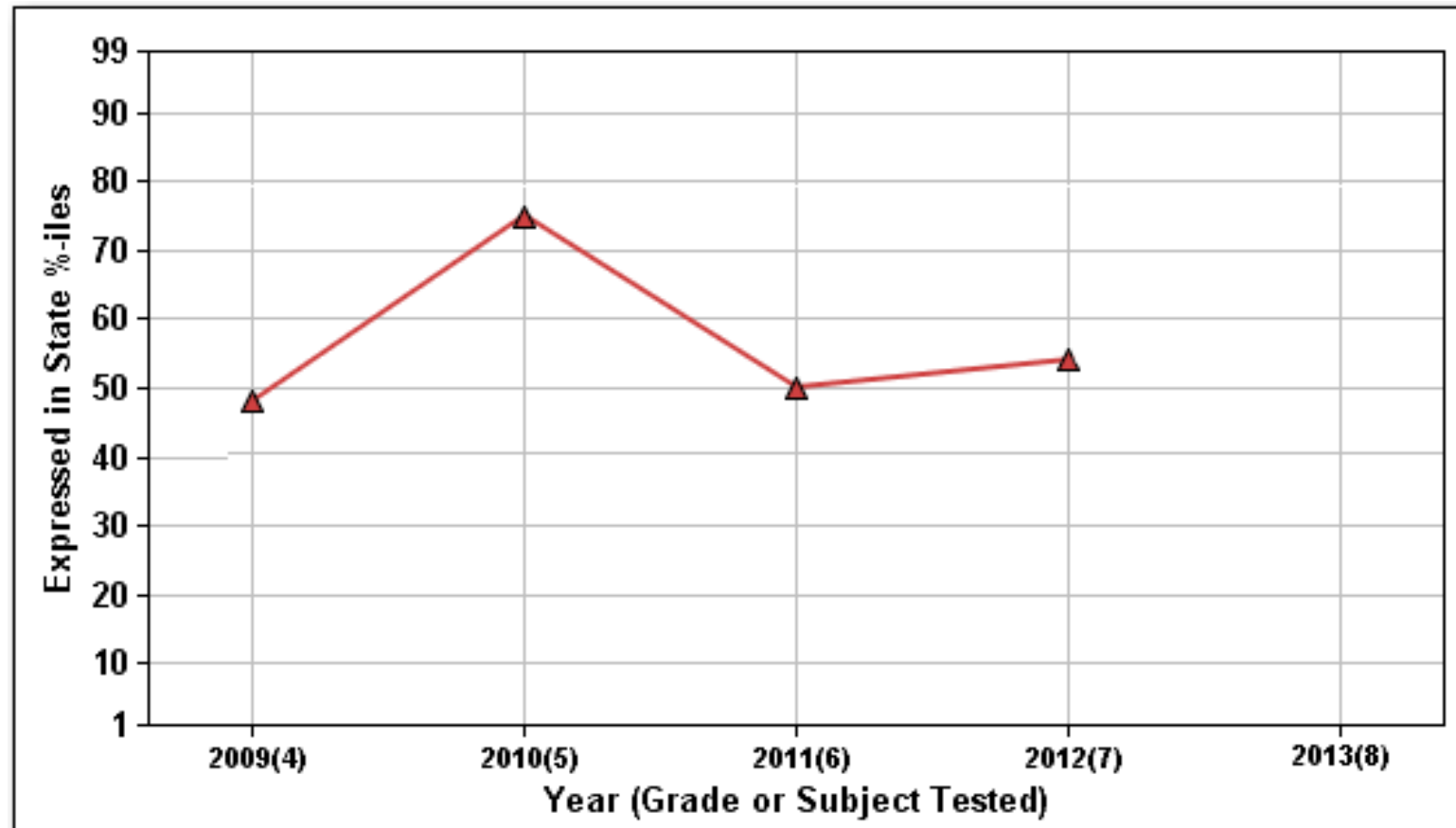
- Barometric pressure
- Water temperature
- Jet stream
- Moisture
- Land masses
- Land temperature
- And much more

Having more information can be helpful...

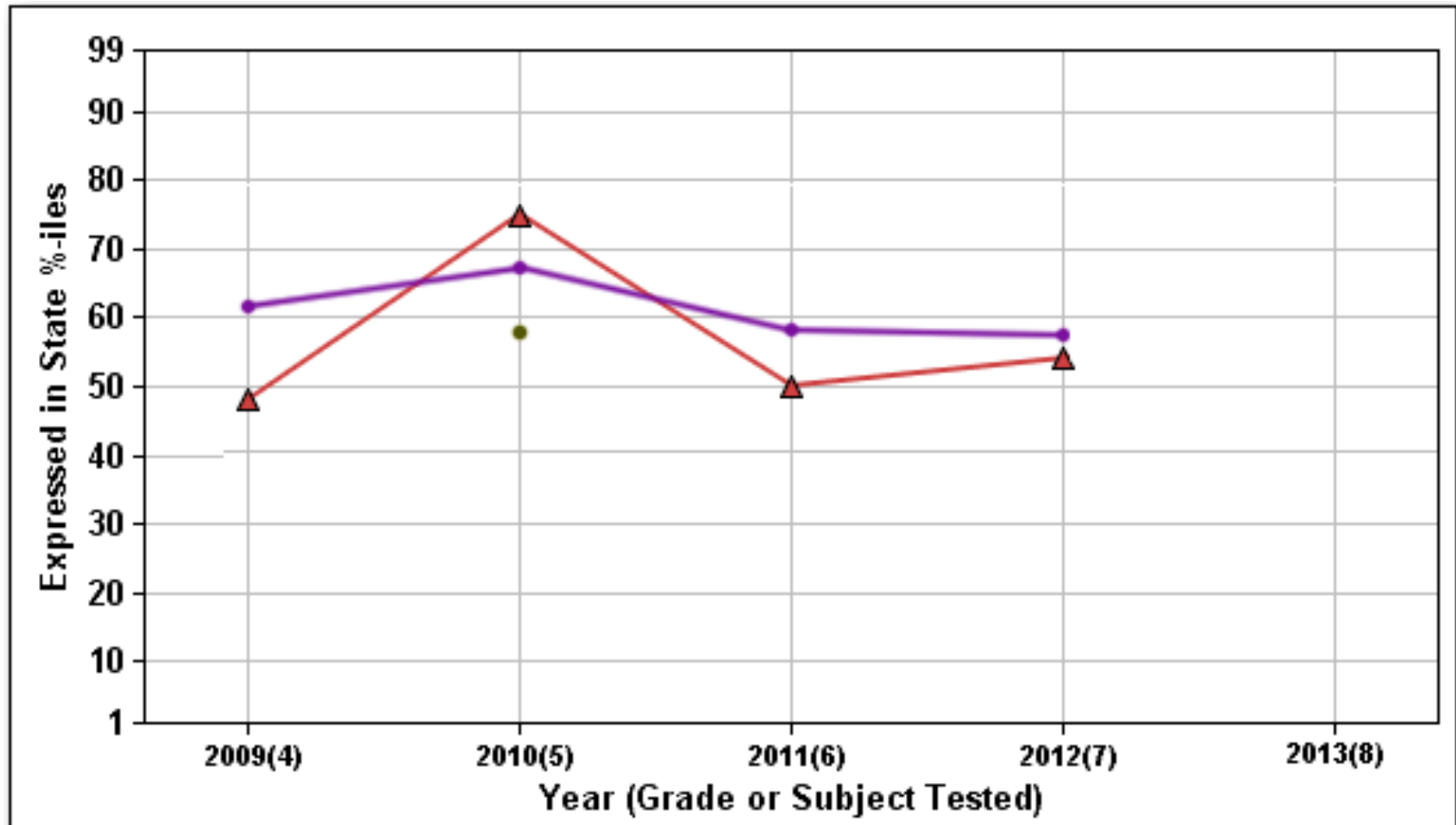


Knowing where something has been helps to determine where it is more likely going to go.

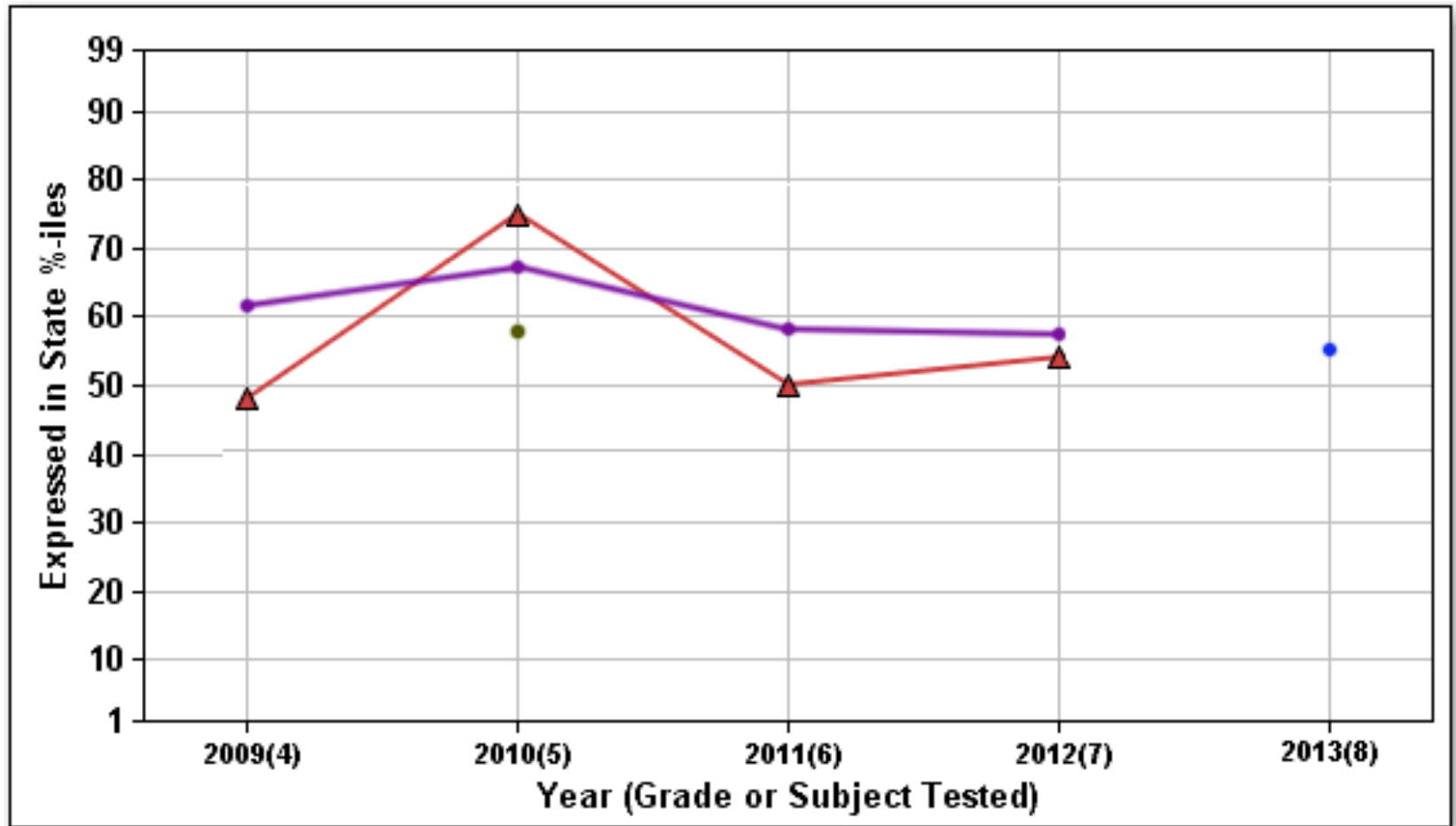
Predictions in EVAAS



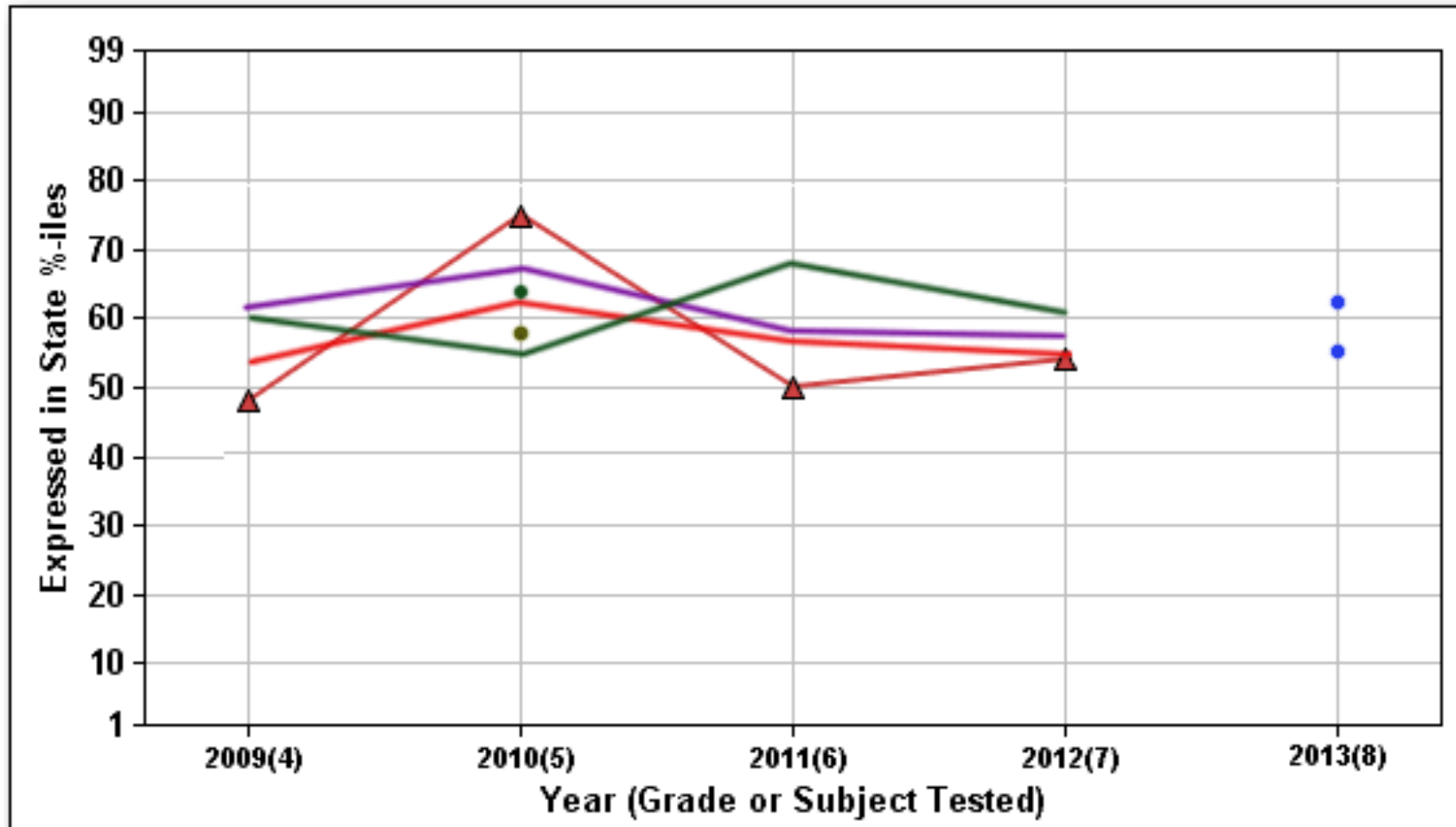
Predictions in EVAAS



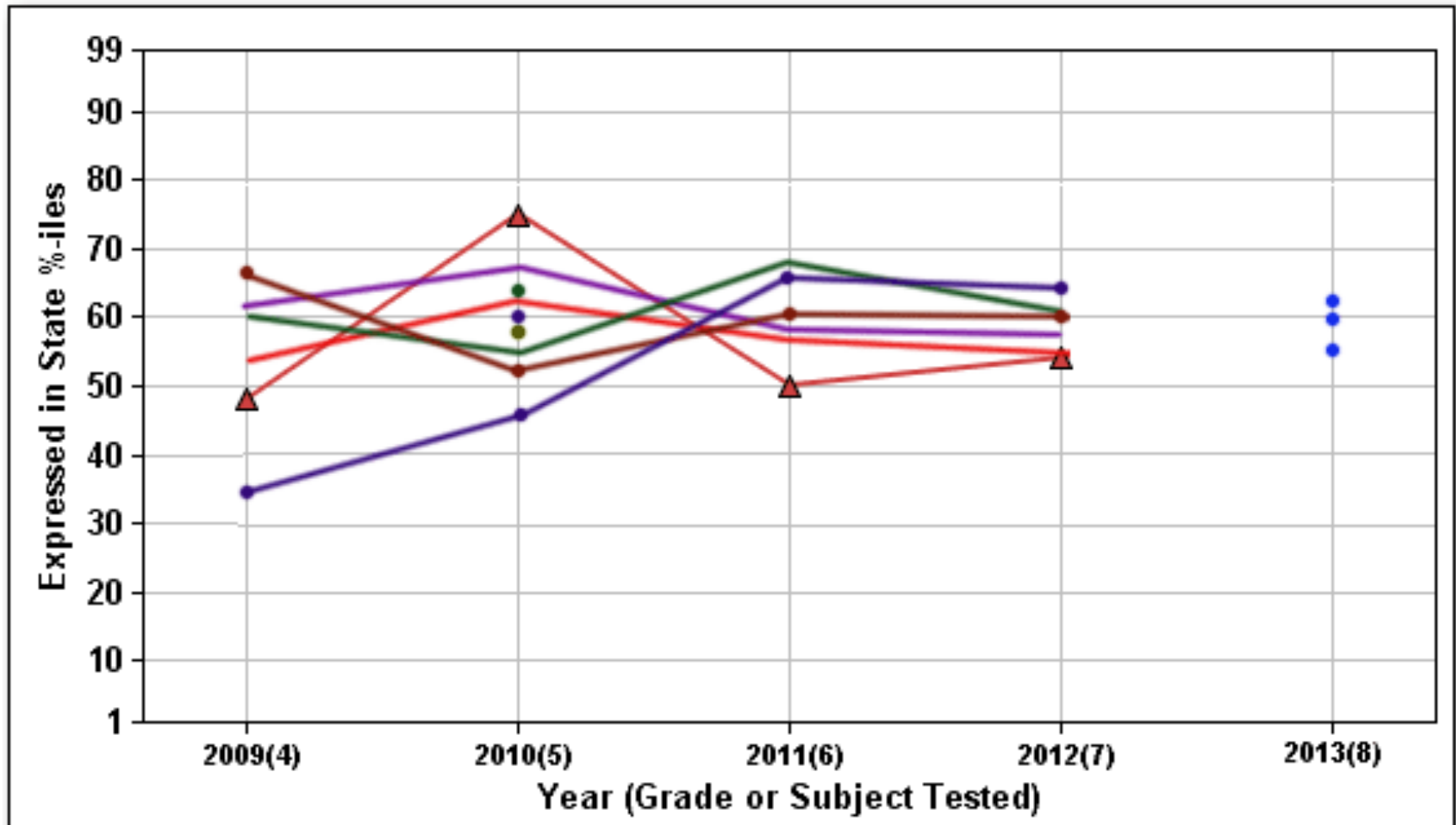
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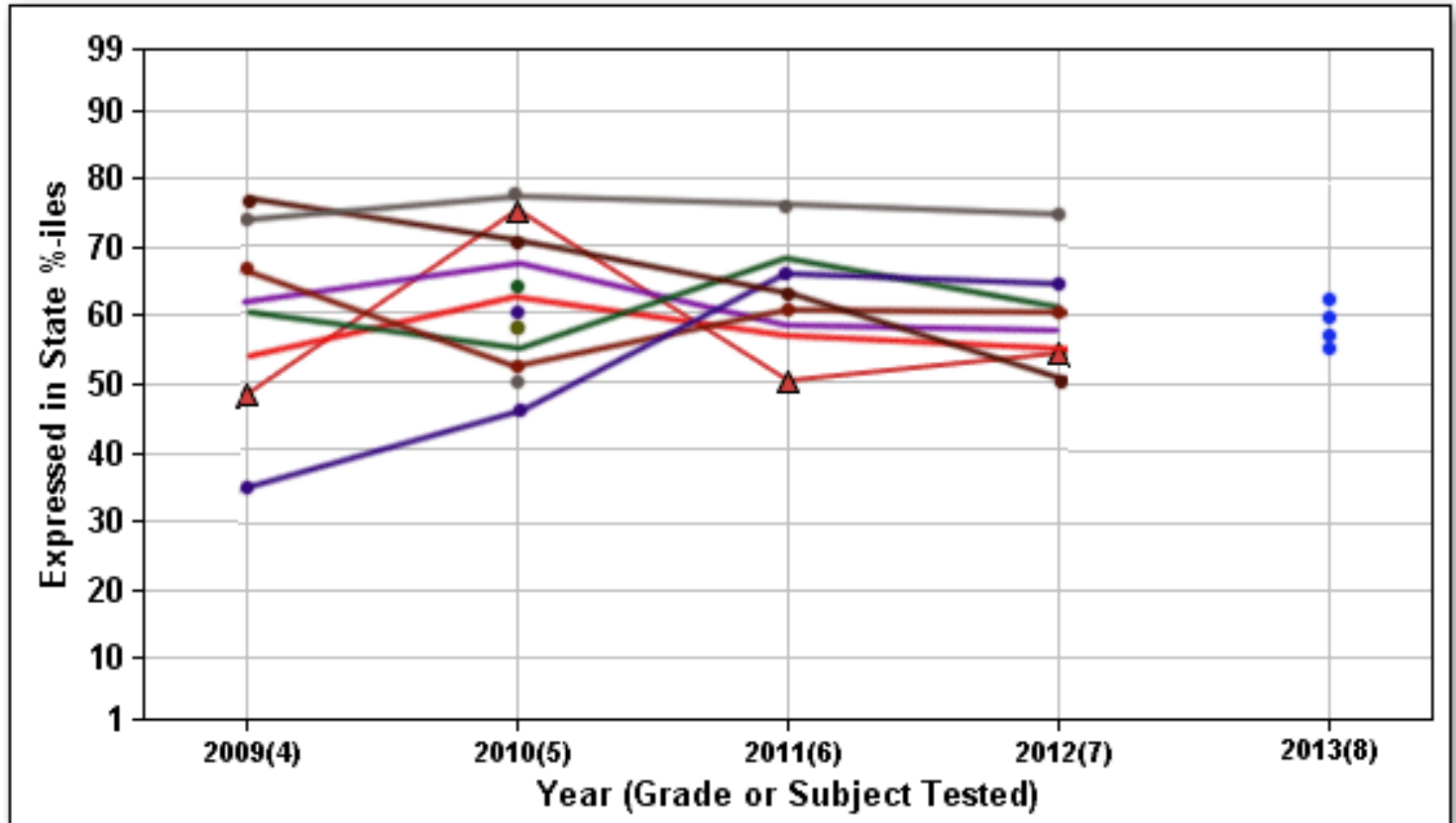
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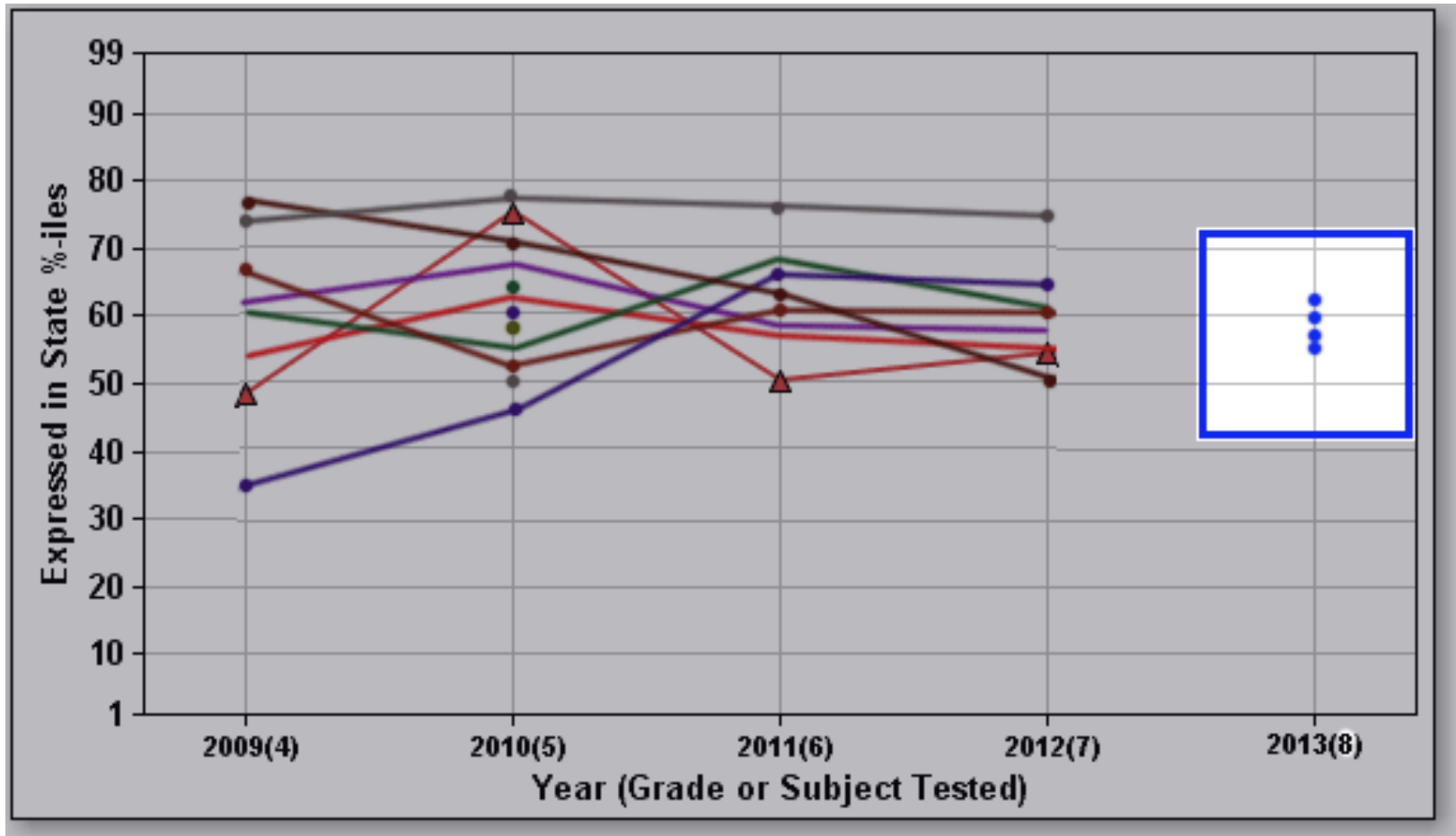
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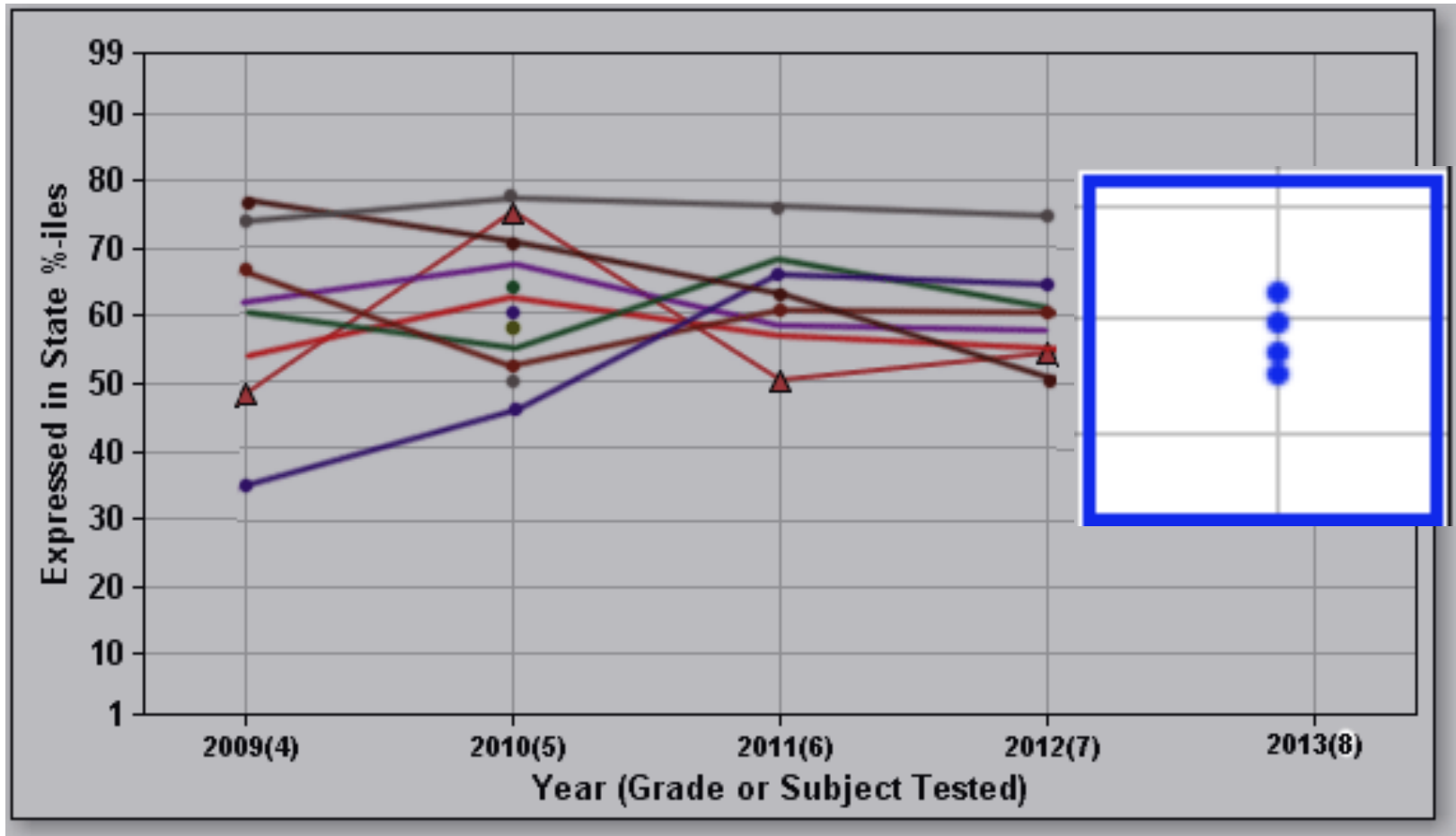
Predictions in EVAAS



Predictions in EVAAS



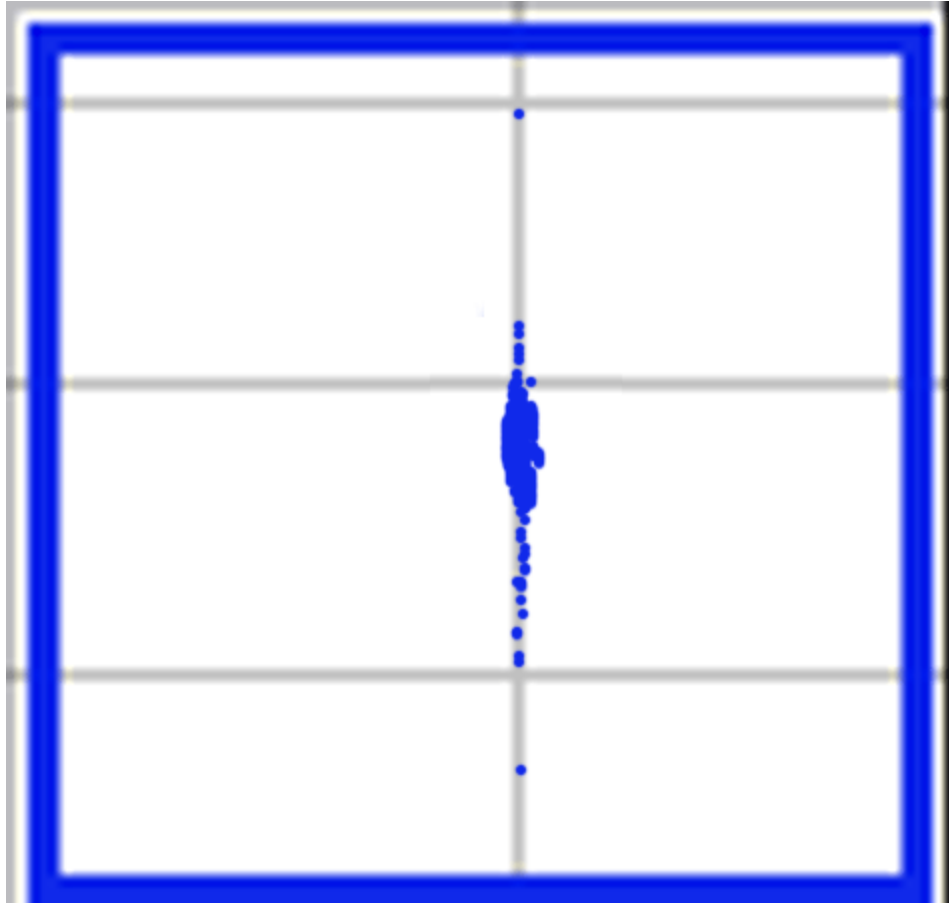
Predictions in EVAAS



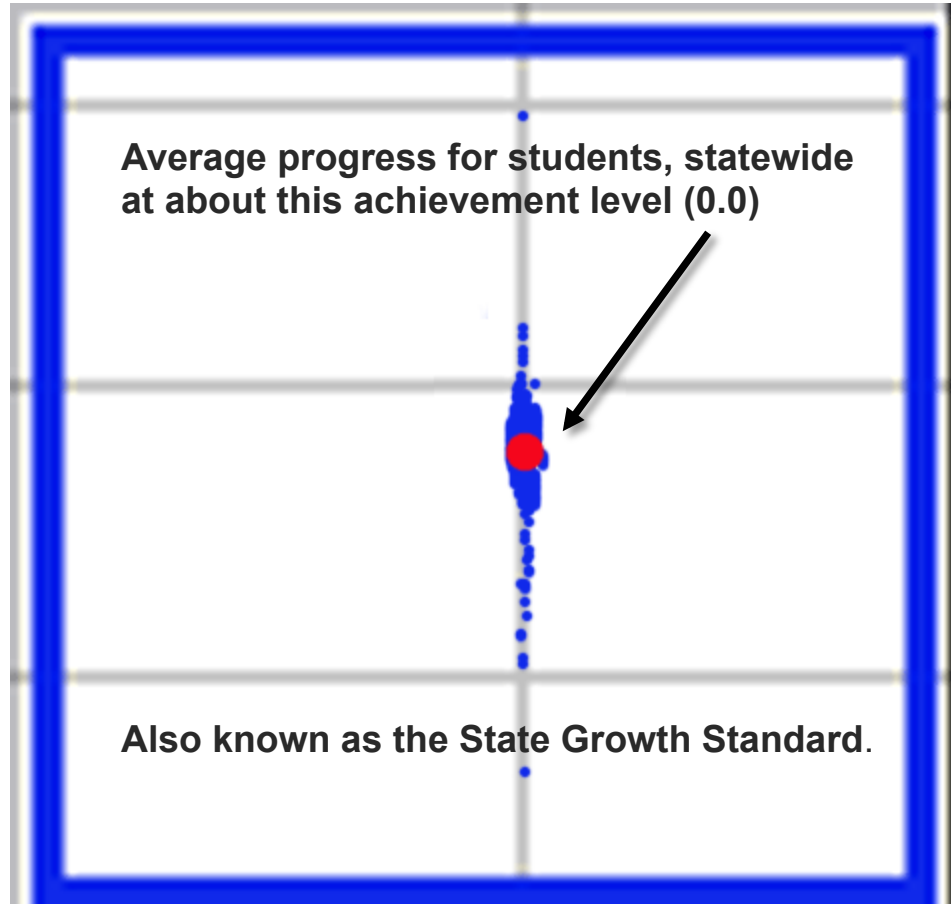
Requirements for the Predictive Model

- Minimum of 10 students
- Minimum of 6 full students
- Minimum of 3 prior test scores for each student

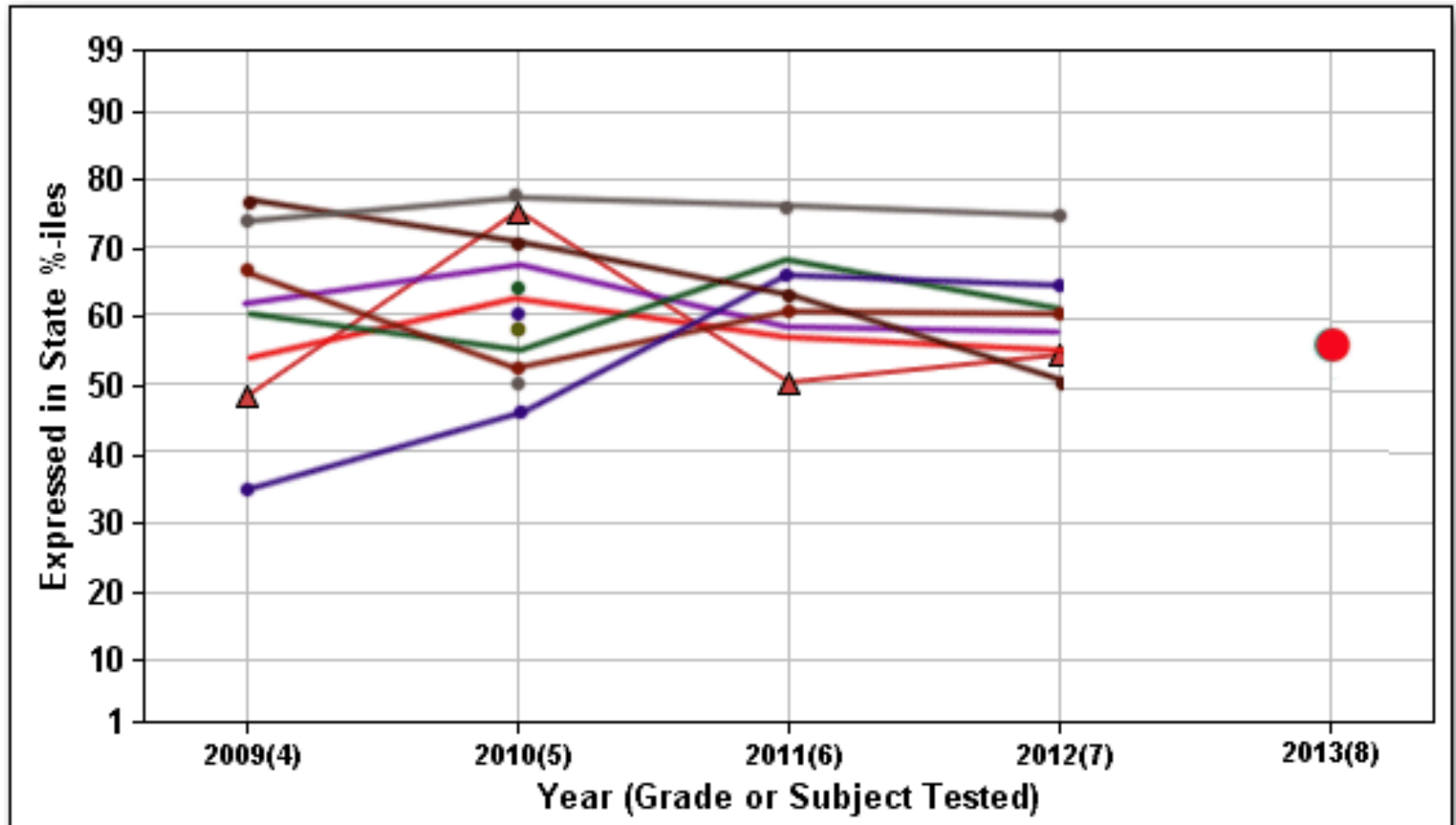
Predictions in EVAAS



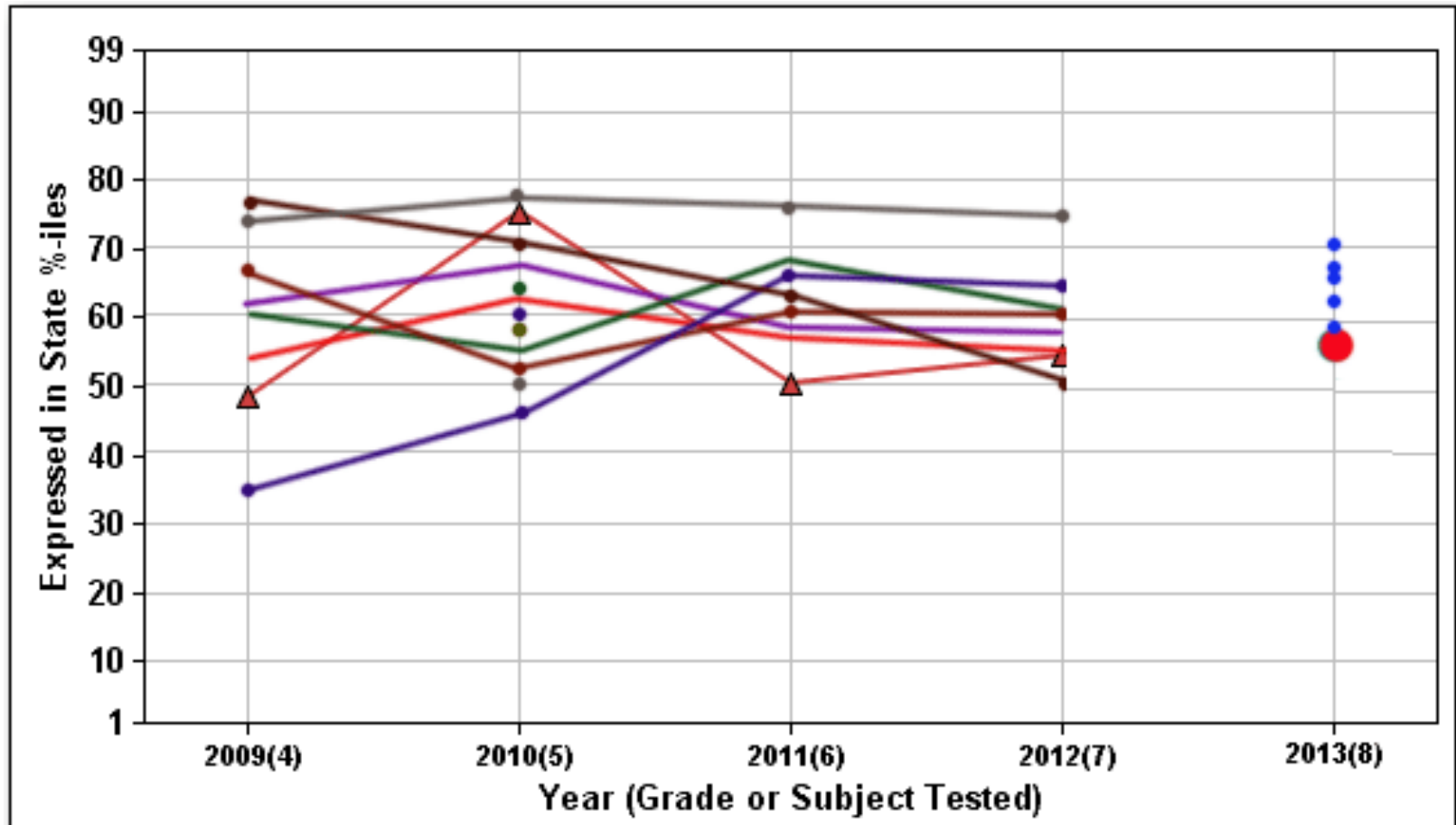
Predictions in EVAAS



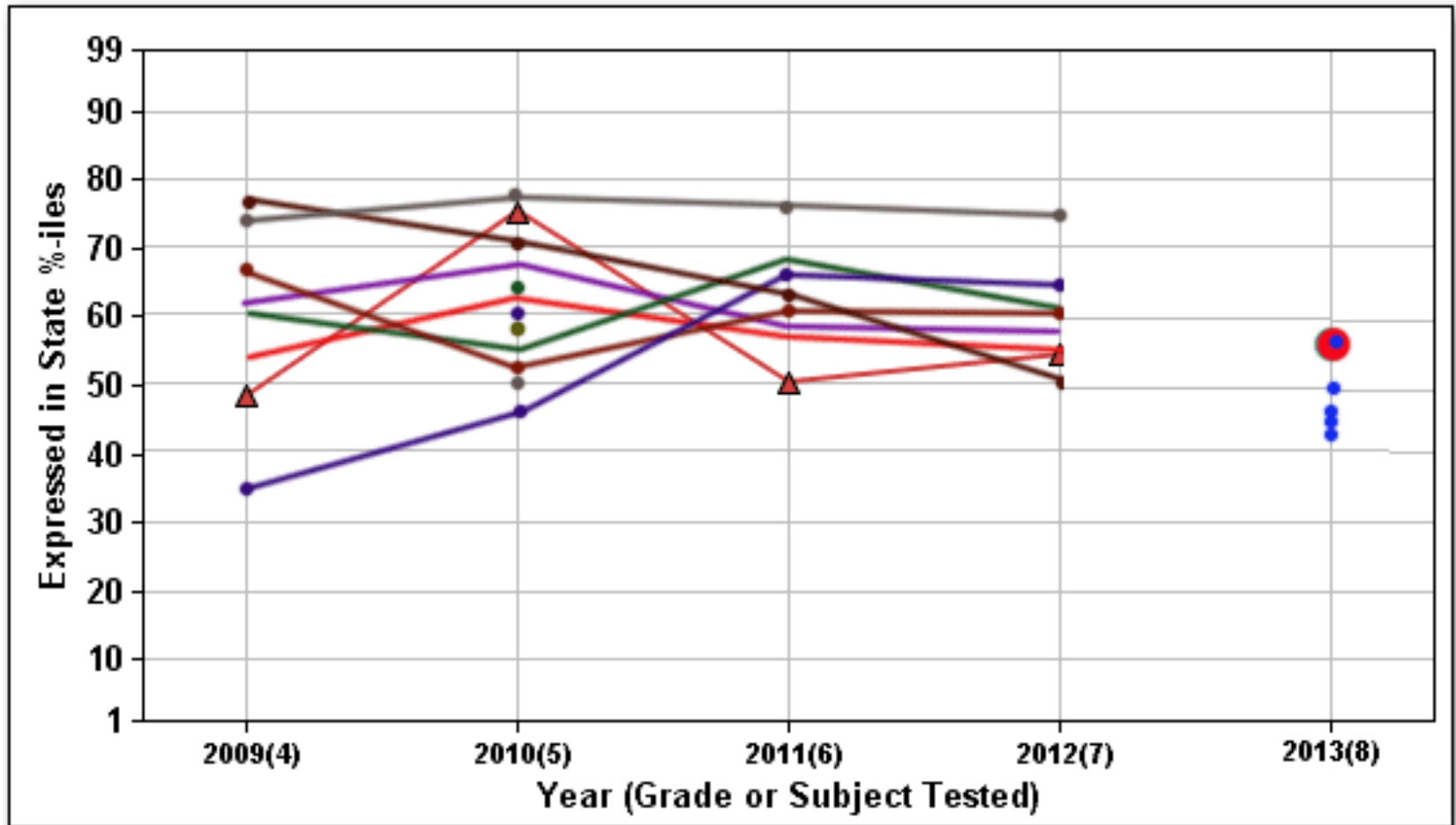
Predictions in EVAAS



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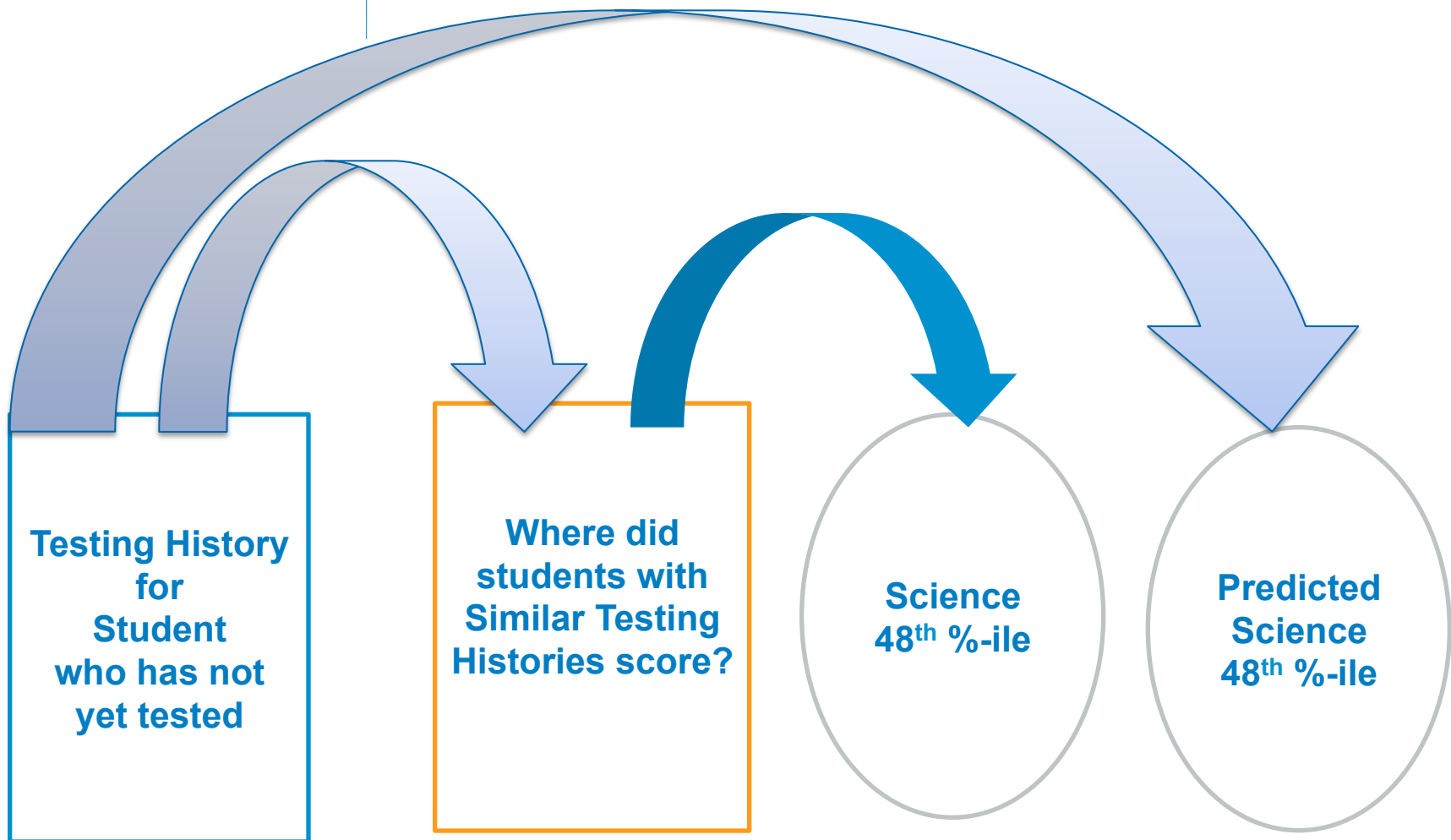
Predictions in EVAAS



Understanding a New Term

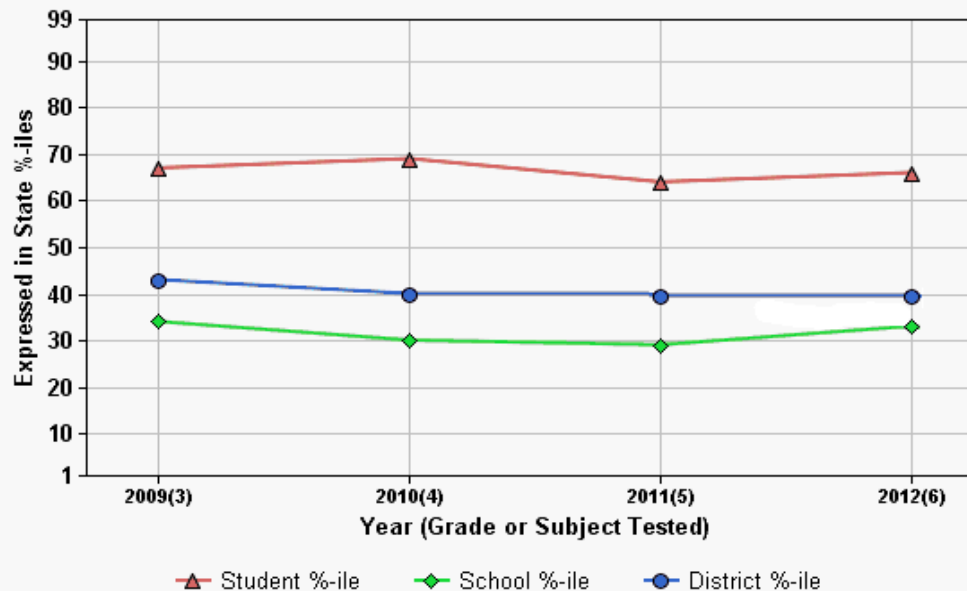
Projections

Student Projections



Past Testing History in Math

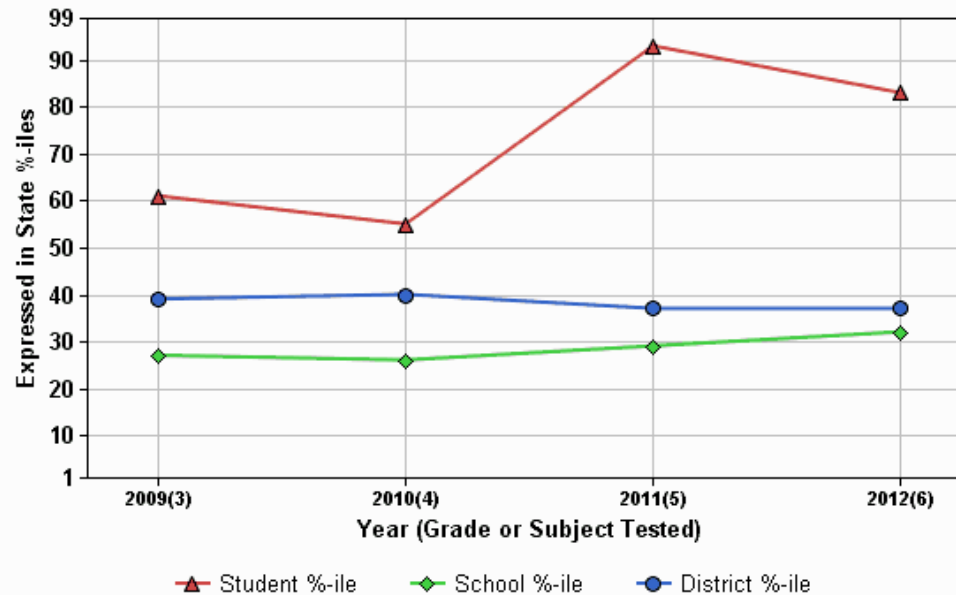
Report: Student History Report Test: End of Grade
 Student: Student-ILlv Subject: Math
 Year: 2012



Subject: Math				
	Year (Grade or Subject Tested)			
	End of Grade (Math)			
	2009(3)	2010(4)	2011(5)	2012(6)
State NCE \ Score	59	60	58	59
%-ile	68	69	64	66
Perf Level	3	3	3	3
Lexile	n/a	n/a	n/a	n/a

Past Testing History in Reading

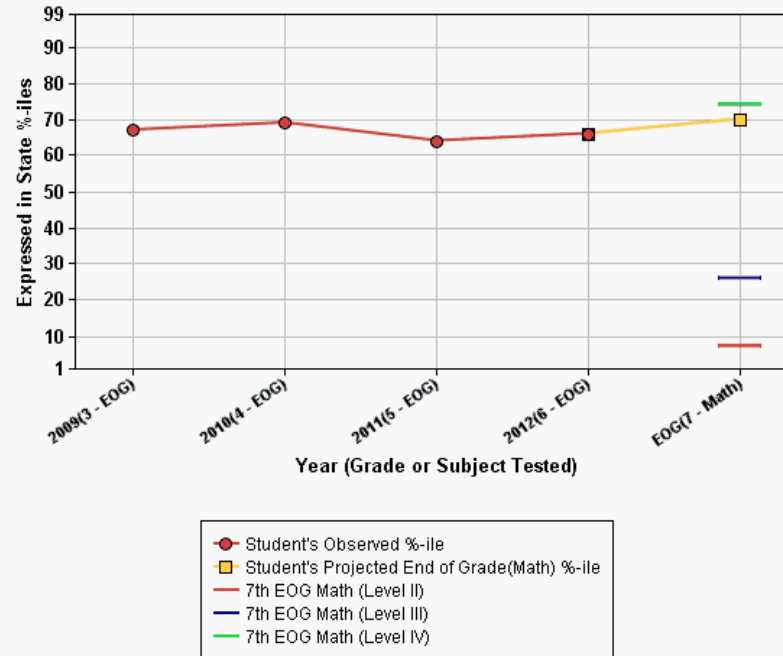
Report: Student History Report Test: End of Grade
 Student: Student-ILlv Subject: Reading
 Year: 2012



Subject: Reading				
	Year (Grade or Subject Tested)			
	End of Grade (Reading)			
	2009(3)	2010(4)	2011(5)	2012(6)
State NCE \ Score	56	52	80	70
%-ile	61	55	93	83
Perf Level	3	3	4	4
Lexile	815L	915L	1235L	1220L

Projection to Future Test

Report: Student Projection Report
 Student: Student-ILlv
 Projection: 7th EOG Math



Projection: 7th EOG Math			
Projected State Percentile	Probability of Success		
	Level II	Level III	Level IV
70	99.9%	99.5%	35.8%

Student's Testing History				
	Year (Grade or Subject Tested)			
	End of Grade (Math)			
	2009(3)	2010(4)	2011(5)	2012(6)
State NCE \ Score	59	60	58	59
%-ile	68	69	64	66

SAS EVAAS Questions?

<http://ncdpi.sas.com>

The screenshot shows the SAS EVAAS login interface. At the top left is the EVAAS logo. In the top right corner, a blue circle highlights a 'Contact Us' link, with an arrow pointing from the URL 'http://ncdpi.sas.com' above. The login section includes fields for 'Username:' and 'Password:', a 'Sign In' button, and links for 'Please note, passwords are case sensitive!' and 'Forgot username or password?'. An arrow points from the URL to the 'Forgot username or password?' link. Below the login fields is a list of links: 'Schedule of Virtual Professional Development' (highlighted with a mouse cursor), 'Virtual Professional Development for Charter Schools', 'Leadership PD: Empower Highly Effective Teaching (for Administrators)', and 'NC Educators Talk About SAS EVAAS'. To the right of these links is an 'Important' notice: 'You are responsible for maintaining the confidentiality of the information provided in the SAS EVAAS reports. Please close your browser window when you are through with your session to prevent unauthorized access to the reports.' Below the links and notice is a photo of Dr. Bill Harrison and Dr. June Atkinson, with their titles: 'Dr. Bill Harrison, Chairman, NC State Board of Education' and 'Dr. June Atkinson, State Superintendent of Public Instruction'. At the bottom left is the SAS logo with the tagline 'THE POWER TO KNOW.'

EVAAS

Username:

Password: [Sign In](#)

Please note, passwords are case sensitive!

[Forgot username or password?](#)

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Dr. Bill Harrison
Chairman
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■ Sandy.Horn@sas.com